PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 118719	FOR FURTHER ACTI	ON	See Form PCT/IPEA/416					
International application No. PCT/AU2004/000768	International filing date ((day/month/year)	Priority date (day/month/year)					
		TDC	11 June 2003					
International Patent Classification (IPC) or national classification and IPC								
Int. Cl. ⁷ C07H 3/06, G06F 19/00 159:00								
Applicant								
PROTEOME SYSTEMS INTELLECTUAL PROPERTY PTY LTD et al								
1. This report is the international prelimina	ary examination report, esta	ablished by this Inte	ernational Preliminary Examining					
Authority under Article 35 and transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of 3		r sheet.						
3. This report is also accompanied by ANI	· · · · · ·							
a. (sent to the applicant and to the	e International Bureau) a to	otal of sheets, as	follows:					
sheets of the description, o	claims and/or drawings wh	ich have been amen	ded and are the basis for this report and/or					
sheets containing rectifica Administrative Instruction	tions authorized by this Au	thority (see Rule 70	0.16 and Section 607 of the					
	•	A						
the disclosure in the intern	national application as filed	, as indicated in iter	s contain an amendment that goes beyond n 4 of Box No. I and the Supplemental					
Box.								
b. (sent to the International Burea a sequence listing and/or table to	uu only) a total of (indicate related thereto, in computer	type and number of	electronic carrier(s)), containing, as indicated in the Supplemental Box					
Relating to Sequence Listing (s	ee Section 802 of the Adm	inistrative Instruction	ons).					
4. This report contains indications relating	g to the following items:							
X Box No. I Basis of the report	rt .							
Box No. II Priority								
Box No. III Non-establishmen	nt of opinion with regard to	novelty, inventive	step and industrial applicability					
Box No. IV Lack of unity of i	invention							
X Box No. V Reasoned statement citations and expl								
	Certain documents cited							
Box No. VII Certain defects in	Certain defects in the international application							
Box No. VIII Certain observations on the international application								
Date of submission of the demand		Date of completion of the report						
7 April 2005		une 2005						
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE	Au	thorized Officer						
PO BOX 200, WODEN ACT 2606, AUSTRALIA								
E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	K.	K. LEVER						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/000768

Box	k No. I	Basis o	f the report		ł				
1.		regard to the la		s report is based on the international application in the language in which it was filed, unless em.	;				
	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:								
	international search (under Rules 12.3 and 23.1 (b))								
•	publication of the international application (under Rule 12.4)								
	international preliminary examination (under Rules 55.2 and/or 55.3)								
2.									
		the description	•						
	Ш	me description	pages	as originally filed/furnished					
			pages*	received by this Authority on with the letter of					
			pages*	received by this Authority on with the letter of					
		the claims:	•						
			pages	as originally filed/furnished					
			pages* pages*	as amended (together with any statement) under Article 19 received by this Authority on with the letter of					
			pages*	received by this Authority on with the letter of					
		the drawings:							
			pages		9				
			pages* pages*	received by this Authority on with the letter of received by this Authority on with the letter of					
		a seguence listi							
3.		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.							
Э.				lted in the cancellation of:					
			scription, pa	ges					
			aims, Nos.						
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			quence listin		1				
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4.				ished as if (some of) the amendments annexed to this report and listed below had not been a considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule	5				
		the de	scription, pa	nges .					
		the cla	aims, Nos.						
		the dr	awings, shee	ets/figs	ŀ				
		the see	quence listin	ng (specify):					
		any ta	ble(s) related	d to the sequence listing (specify):					
*	* If item 4 applies, some or all of those sheets may be marked "superseded."								

INTERNATIONAL PRELIMINARY REPORT ON PATENTARILITY

International application No.

PCT/AU2004/000768

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. State	ment			
	Novelty (N)	Claims 1-17	•	YES
		Claims		NO
	Inventive step (IS)	Claims 1-17		YES
		Claims		NO
	Industrial applicability (IA)	Claims 1-17		YES
		Claims	•	NO

2. Citations and explanations (Rule 70.7)

ETHIER et al.

This document describes a new computer program for automated interpretation of MS spectra of complex N-linked glycans. The MS results are simplified and the results formed into a relationship tree which indicates how the fragments are linked. Algorithms calculate a score or rank of each potential structure depending on agreement with the experimental data. This document does not disclose or suggest the final step in the process that is; when insufficient confidence is obtained in the highest ranked score, the step of repeating the process by taking into account more complex cleavage patterns in a theoretical fragmentation step or by obtaining further fragments.

JOSHI et al

This document was published later than the filing date of the current application thus does not impact on novelty or inventive step but is closely related to the current invention. The Overview on page 1655 is the same process as the current application.

WO 1995025281

This documents a process for identifying proteins using mass spectra data of a protein fragment of an unknown sequence and comparing it with stored values. A ranking or score is determined for the likely hood of the next subsequence fragment in the sequence. The process while similar to that of the current application, does not determine the structure of proteins and is not contemplated for use with glycans. Thus does not impact on novelty or inventive step.

Therefore claims 1-17 are considered novel and to have an inventive step.

Claims 1-17 are considered to be industrially applicable.